

<b>DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT</b> <b>Housing - Federal Housing Commissioner</b>		<b>Series and Series Number:</b> <b>MATERIALS RELEASE NO: 1223e</b> (Supersedes issue dated October 11, 2002)				
<b>TO: DIRECTORS, SINGLE FAMILY HOCs</b> <b>DIRECTORS, MULTIFAMILY HUBs</b>		<b>ISSUE DATE</b> December 14, 2006				
		<b>REVIEW DATE</b> December 14, 2009				
<b>SUBJECT:</b> <table border="0"> <tr> <td>1. Product</td> <td>Duro-Last Roofing System</td> </tr> <tr> <td>2. Name and address of Manufacturer</td> <td>           Duro-Last Roofing, Inc.            525 Morley Drive            Saginaw, MI 48601         </td> </tr> </table>			1. Product	Duro-Last Roofing System	2. Name and address of Manufacturer	Duro-Last Roofing, Inc. 525 Morley Drive Saginaw, MI 48601
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Data on the nonstandard product described herein have been reviewed by the Department of Housing and Urban Development (HUD) and determination has been made that it is considered suitable from a technical standpoint for the use indicated herein. This Release does not purport to establish a comparative quality or value rating for this product as compared to standard products normally used in the same manner.

This Materials Release cannot be used as an indication of endorsement or approval by HUD of the described product, and any statement or representation, however made, indicating such approval or endorsement by HUD is unauthorized. See Code 18, U.S.C. 709.

Any reproduction of this Release must be in its entirety.

USE: Roofing System for Nominally Flat and Pitched Roofs.

DESCRIPTION:

Duro-Last is a plasticized blend of PVC and acrylic resins reinforced with polyester fabric, .040 nominal inch thick, single-ply roof membrane. The roof membrane is mechanically fastened to the deck or ballasted. The Duro-Last Roofing System consists of the Duro-Last membrane, fasteners, prefabricated corners, parapets, stacks, and vent sections. The roofing membrane is supplied in 64.5 inch wide rolls, which may be factory fabricated into one piece membrane sheets up to a maximum size of 2,500 square feet with no dimension exceeding 100 feet. Factory seams are dielectrically or hot air welded. Field seams are hot air welded.

## MATERIALS:

All elements of Duro-Last Roofing System shall be products of Duro-Last Roofing, Inc., with its trademark. Materials used in conjunction with the system, which are not products of Duro-Last Roofing, Inc., shall be approved in writing by Duro-Last Roofing, Inc.

Physical properties of the Duro-Last membrane (tear strength, accelerated weathering, etc.) are on file in HUD Headquarters and Duro-Last Roofing, Inc.

## WIND AND FIRE CLASSIFICATION:

Mechanically fastened roofing systems shall be designed to resist wind uplift forces as determined in the Wind Design Guide for Mechanically Fastened Single-Ply Roofing Systems published by Single Ply Roofing Institute (SPRI).

Ballasted roofing systems shall be designed in accordance with the Wind Design Guide for Ballasted Single-Ply Roofing Systems published by SPRI.

Fire Classification shall be in accordance with Underwriters Laboratories, Inc., (UL) or Factory Mutual Engineering Corporation (FM) Constructions. To qualify for fire rating and uplift resistance, the system shall be in the current UL or FM Listings.

## INSTALLATION:

### 1 General

Duro-Last roofing system shall be installed by roofing contractors approved or licensed by Duro-Last Roofing, Inc., and installation shall be in accordance with proper Duro-Last specification and details.

### 2 Substrate Preparation

Preparation of the substrate shall comply with the latest edition of Duro-Last Specifications. Design of the roof deck is the responsibility of the owner or the owner's architect/engineer.

### 3 Insulation

Insulation or underlayment must be approved in writing by Duro-Last Roofing, Inc., as to thickness and type. Insulation is to be installed in accordance with insulation manufacturer's recommendations and Duro-Last Specifications.

4. Membrane

Membrane installation, including placing, seam welding, perimeters attachment, flashing, construction closure, walkways and other work to provide watertight roofing systems shall comply with appropriate Duro-Last Roofing Systems Specifications.

MANUFACTURING LOCATIONS:

The product covered under this MR will be produced at the following plant(s):

Duro-Last World Headquarters  
Duro-Last Roofing, Inc.  
525 Morley Drive,  
Saginaw, MI 48601  
Phone: 800-248-0280  
General Manager: Albert Janni

Duro-Last Roofing, Inc.  
1409 E. SADC Avenue  
Sigourney, Iowa 52591  
Phone: 641-622-1079  
General Manager: Drew Ballensky

Duro-Last Roofing, Inc.  
6200 I-55 South  
Jackson, MS 39272  
Phone: 601-371-1973  
General Manager: Lee Cobb

Duro-Last Roofing, Inc.  
111 N. Valley Drive  
Grants Pass, OR 97526  
Phone: 541-476-9918  
General Manager: Tim Hart

INSPECTION:

A designated representative of Duro-Last Roofing, Inc., shall make inspections of the installation at the following intervals: (1) prior to delivery of materials - to accept or reject the roof deck to which the roofing system is to be applied; (2) during the installation - to inspect and approve the installation technique/methods; and (3) upon completion - to give final approval to the installation.

## WARRANTY:

A minimum ten (10) year warranty shall be given to the owner by Duro-Last Roofing, Inc., to provide as follows:

Duro-Last Roofing, Inc. (Duro-Last) hereby warrants to the owner of its roofing system that the system will remain in a watertight condition and will retain at least 80 percent of its specified aged thermal resistance value, if applicable, for a period of ten (10) years from the date of installation. In the event of failure of the aforesaid system to function as warranted above, whether on account of defective materials, faulty installation, or on account of normal processes of wear and aging, Duro-Last will make or cause to be made such repairs and maintenance necessary to enable the system to perform as warranted above.

Duro-Last's obligations to repair or maintain the system under this warranty shall not be in force or effect unless: (1) Duro-Last is notified of any failure of the system covered by the warranty within thirty (30) days following such failure; (2) the system is installed by an applicator approved by Duro-Last; and (3) no alternations or repairs to the system are made without the prior written approval of Duro-Last as to the extent, methods and materials used.

Duro-Last assumes no liability for any failure of the systems resulting from winds, which exceed the design wind, Acts of God, including without limitation, lightning or earthquake; nor for any failure of the systems resulting from fire of any origin or cause, nor for any failure of the product caused by structural defects of the buildings on which the system is applied nor from deliberate misuse of the product; nor for any failure of the systems caused by leakage or any other cause from an adjacent structure.

## MANUFACTURER'S RESPONSIBILITIES:

Issuance of this Materials Release (MR) commits the manufacturer to fulfill, as a minimum, the following:

1. Produce, label and certify the material, product or system in strict accordance with the terms of this MR.
2. Provide necessary corrective action, in a timely manner for all cases of justified complaint, poor performance or failure reported by HUD.
3. When requested, provide the FHA Standards, Office of Manufactured Housing Programs, HUD Headquarters, with a representative list of properties in which the material, product or system has been used, including complete addresses or descriptions of locations and dates of installation.
4. Inform HUD in advance of changes in production facilities, methods, design of the product, company name, ownership or mailing address.

**EVALUATION:**

This MR shall be valid for a period of three years from the date of initial issuance or most recent renewal or revision, whichever is later. The holder of this MR shall apply for a renewal or revision 90 days prior to the Review Date printed on this MR. Submittals for renewal or revision shall be sent to:

U. S. Department of Housing and Urban Development  
FHA Standards, Office of Manufactured Housing Programs  
451 7<sup>th</sup> Street, SW, Room 9168  
Washington, DC 20410-8000

Appropriate User Fee shall be sent to:

U. S. Department of Housing and Urban Development  
Miscellaneous Income – Technical Suitability of Products Fees  
Bank of America  
P. O. Box 198762  
Atlanta, GA 30384-8762

The holder of this MR may apply for revision at any time prior to the Review Date. Minor revisions may be in the form of a supplement to the MR.

If the Department determines that a proposed renewal or supplement constitutes a revision, the appropriate User Fee for a revision will need to be submitted in accordance with Code of Federal Regulations 24 CFR 200.934, "User Fee System for the Technical Suitability of Products Program," and current User Fee Schedule.

**CANCELLATION:**

Failure to apply for a renewal or revision shall constitute a basis for cancellation of the MR. HUD will notify the manufacturer that the MR may be canceled when:

1. conditions under which the document was issued have changed so as to affect production of, or to compromise the integrity of the accepted material, product, or system,
2. the manufacturer has changed its organizational form without notifying HUD, or
3. the manufacturer has not complied with responsibilities it assumed as a condition of HUD's acceptance.

However, before cancellation, HUD will give the manufacturer a written notice, of the specific reasons and the opportunity to present views on why the MR should not be canceled. No refund of fees will be made on a canceled document.

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This Materials Release is issued solely for the captioned firm and is not transferable to any person or successor entity.

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